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n & II*

*mea)
Please process
under CAC general
Task
12/1/59
1300*

25X1

ILLEGIB

24 November 1959

Dear Joe,

Enclosed are three copies of the Proposal
for the additional work on the Capsule Study
which we discussed during your visit last
week.

Regards,

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*under II
to CL
14/59*

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**PROPOSAL
FOR
CAPSULE STUDY II**

24 November 1959

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INTRODUCTION

This company has recently conducted under RD 45, Task R, Work Order 9, a study for the redesign of the Capsule for the Mk II AC Delay. Though it had originally been proposed to concentrate on the development of a plastic capsule, this approach had to be dropped due to the measurable solubility and vapor transmission of even the most resistant materials. In place of the above approach, a study was made of different discs to replace the lead rupture discs over the end of the capsule. This led to the very successful use of .003" brass shim stock, which was later replaced by cartridge brass. Since this technique means that the basic capsule remains unchanged, a considerably simpler and cheaper reworking can be performed.

WORK PLAN

At the Project Officer's request, this company proposes to undertake a study of capsules fabricated with the brass rupture discs. It is anticipated that 200 new capsules, which are on hand, will be loaded using all of the solvents in the Mk II units. These will be subjected to continuous shock cycling, being weighed at frequent intervals.

In addition, approximately 25 experimental capsules will be prepared for the Mk III Delay and given a similar quantitative examination.

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Finally, as a part of the surveillance necessary for the 1955 M2 II AG Delay pilot production, twenty five of the canned units will be selected and opened. The nitrocellulose discs will then be carefully removed and examined to determine the degree of penetration of the striker assembly.

AGGRE

It is proposed to employ the part-time services of one engineer and one technician for a period of six months. In addition to routine monthly technical reports, a final report will be submitted containing all the surveillance data.

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60 hrs. Engineering Labor @ \$4.50	\$ 270.00
200 hrs. " " @ \$3.00	<u>600.00</u>
Sub Total I	\$ 870.00
Overhead @ 114%	<u>982.00</u>
Sub Total II	\$ 1,852.00
Materials & Purchased Parts	300.00
Tools, Jigs & Fixtures	<u>250.00</u>
Sub Total III	\$ 2,412.00
G & A @ 5%	<u>121.00</u>
Sub Total IV	\$ 2,533.00
Fee @ 8%	<u>203.00</u>
Total	\$ 2,736.00

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